Department of Energy

ROCKY FLATS OFFICE
P.O. BOX 928
GOLDEN, COLORADO 80402-0928

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JUL 2 8 1994

94-DOE-08001

Mr. Steve Tarlton
Water Quality Control Division
Colorado Department of Health
4300 Cherry Creek Drive South
Denver, Colorado 80222-1530

Dear Mr. Tarlton:

As discussed in the July 27, 1994 Cities meeting, current pond conditions are ideal for transferring approximately two million gallons of water from the Landfill Pond to the A series ponds. Currently the Landfill Pond is 71 percent full and that level needs to be lowered to allow for a thorough evaluation of the landfill seep.

The attached data shows that the water in the Landfill Pond meets segment four standards and based on this data we request a transfer of 300,000 gallons to Pond A1 and 1,700,000 gallons to A3. This transfer will allow us to draw the Landfill Pond down to approximately 50 percent. The water transferred to Pond A1 will increase the pool level in that pond to approximately 10 percent. Currently, the sediments in Pond A1 are becoming exposed due to the lack of rain at the site this summer. Covering these sediments with water will reduce the potential for wind dispersion. The water transferred to Pond A3 will eventually be transferred to Pond A4 for off-site discharge.

We would appreciate a formal approval of this transfer as soon as your staff has a chance to review the data. Also, please fax your response to me at 966-4775 and Steve Pettis at 966-3534 concurrent with normal mail delivery so that we may expedite the transfer of water during this dry period. My staff will not be available next week to answer questions. Please contact me at 966-4031 or Steve Pettis at 966-2001 with any questions or comments.

Sincerely,

Tod N. Anderson

Tod Anderson
Acting Director,
Site Support Division

Attachment
cc w/o attachment:
Cheryl Row, RFFO
Gail Hill, RFFO
Sam Marshall, EG&G
Steve Pettis, EG&G

ADMIN RECORD

1/4

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ATTACHMENT 1: RFP Pre-Operational Sampling Results for the Landfill Pond

Analytes	(Units)	Landfill Pond 3/17/94	Landfill Pond 6/13/94	Segment 4 Standards	Segment 5 Standards
Physical & Biological					
Ammonia as N	mg/l as N	NA	NA	0.62 /FT/FPH/2	0.62 /FT/FPH/2
Bicarbonate Alkalinity	mg/l as CaCO3	NA	NA		
Carbonate Alkalinity	mg/l as CaCO3	NA	NA		
Chloride	mg/l	NA	NA	250	250
Conductivity	ms/cm	1.26	1.23		
Cyanide (free)	mg/l	NA	NA	0.005	0.005
Dissolved Oxygen	mg/l	6.9	6.2	> 5.0	> 5.0
Fluoride	mg/l	NA	NA		
Nitrate/Nitrite	mg/l as N	<0.05	NA	10	10
pH	Standard Units	7.7	8.6	6.0 to 9.0	6.0 to 9.0
Sulfate	mg/l	NA	NA	250	250
Temperature	C	8.9	19.4		
Total Alkalinity	mg/l as CaCO3	NA	NA		
Total Dissolved Solids	mg/l	NA	NA		
Total Residual Chlorine	mg/l	0.05	NA		
Total Suspended Solids	mg/l	NA	NA		
Water Hardness	mg/l as CaCO3	NA	NA	150	150
				Basis for TVS Calculations	
Dissolved Metals					
Aluminum	ug/l	NA	NA	150	150
Antimony	ug/l	NA	NA		
Arsenic	ug/l	NA	NA	50	50
Barium	ug/l	NA	NA	1000	1000
Beryllium	ug/l	NA	NA	4	4
Cadmium	ug/l	NA	NA	1.6	1.6
Calcium	ug/l	NA	NA		
Chromium III	ug/l	NA	NA		
Cobalt	ug/l	NA	NA		
Copper	ug/l	NA	NA	16.7	16.7
Iron	ug/l	NA	NA	300	300
Lead	ug/l	NA	NA	6.9	6.9
Magnesium	ug/l	NA	NA		
Manganese	ug/l	NA	NA	50	580
Mercury	ug/l	NA	NA	0.01	0.01
Molybdenum	ug/l	NA	NA		
Nickel	ug/l	NA	NA	130.1	130.1
Potassium	ug/l	NA	NA		
Selenium	ug/l	NA	NA	10	10
Silver	ug/l	NA	NA	0.6	0.6
Sodium	ug/l	NA	NA		
Strontium	ug/l	NA	NA		
Thallium	ug/l	NA	NA	15	15

NA - Not Analyzed. U - Undetected. J - Compound found below PQL; result is estimated. B - Compound found; present in method blank (organics). Result less than Required Detection Limit, greater than or equal to Instrument Detection Limit (metals).

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Analytes	(Units)	Landfill Pond 3/17/94	Landfill Pond 6/13/94	Segment 4 Standards	Segment 5 Standards
Titanium	ug/l	NA	NA		
Vanadium	ug/l	NA	NA		
Zinc	ug/l	NA	NA	25.7	25.7
Total Metals					
Aluminum	ug/l	147 B	58 B	150	150
Antimony	ug/l	26 U	26 U		
Arsenic	ug/l	1.8 B	1.9 B	50	50
Barium	ug/l	175 B	129 B	1000	1000
Beryllium	ug/l	1 U	1 U	4	4
Cadmium	ug/l	0.2 U	0.1 U	1.8	1.8
Calcium	ug/l	43400	28200		
Chromium III	ug/l	4 U	5 U	50	50
Cobalt	ug/l	4 U	5 U		
Copper	ug/l	6.2 B	3 U	15.7	23
Iron	ug/l	1420	209	1000	13200
Lead	ug/l	1 B	1 U	6.9	28
Magnesium	ug/l	42700	39700		
Manganese	ug/l	92.4	12 B	1000	1000
Mercury	ug/l	0.2 U	0.1 U	0.01	0.01
Molybdenum	ug/l	9 U	12 U		
Nickel	ug/l	16 U	15 U	130.1	130.1
Potassium	ug/l	9370	9090		
Selenium	ug/l	1 U	1 U	10	10
Silver	ug/l	0.2 U	0.3 U	0.6	0.6
Sodium	ug/l	172000	173000		
Strontium	ug/l	538	448		
Thallium	ug/l	1 U	0.5 U	15	15
Titanium	ug/l	8.8 B	4 U		
Vanadium	ug/l	4 U	4 U		
Zinc	ug/l	11.1 B	14.8 B	25.7	350
Organic					
Semi-volatile Organics (65)		all U except	all U except		
1,2,4-Trichlorobenzene	ug/l	U	3 J		
Acenaphthene	ug/l	U	2 J	520	520
bis(2-ethylhexyl)phthalate	ug/l	13.0 B	0.4 BJ	1.8	1.8
Butylbenzylphthalate	ug/l	U	0.7 BJ	3000	3000
Di-n-butylphthalate	ug/l	U	0.4 BJ	2700	2700
Diethylphthalate	ug/l	0.7 J	U	23000	23000
Isophorone	ug/l	U	0.2 BJ	8.4	8.4
Pentachlorophenol	ug/l	U	4 J	5.7	5.7
Pyrene	ug/l	U	2 J	0.0028	0.0028

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Analytes	(Units)	Landfill Pond 3/17/94	Landfill Pond 6/13/94	Segment 4 Standards	Segment 5 Standards
Volatile Organics (524.2) (59)		all 1 U	all 1 U		
Chloroform	ug/l			6	6
Triazine (619) (2)		NA	NA		
Atrazine	ug/l			3	3
Herbicides (8150) (10)		NA	NA		
Radionuclides (Woman Creek)					
Americium-241	pCi/L	-0.003 +/- 0.003	-0.001 +/- 0.005	0.05	0.05
Gross Alpha	pCi/L	1 +/- 2	3 +/- 3	11 (7)	11 (7)
Gross Beta	pCi/L	8 +/- 3	9 +/- 5	19 (5)	19 (5)
Plutonium-239/240	pCi/L	0.001 +/- 0.003	0.003 +/- 0.006	0.05	0.05
Tritium	pCi/L	NA	230 +/- 219	500	500
Uranium-233/234	pCi/L	1.17 +/- 0.07	1.11 +/- 0.13	10 (5)	10 (5)
Uranium-238	pCi/L	1.02 +/- 0.06	0.92 +/- 0.11	10 (5)	10 (5)

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